



**Ball Screw
Repair and
Remanufacture**



Ball Screw Repair Services From PSI Repair Services Can Save You Up to 70% Versus the Cost of Buying New From the OEM.

Buying a new ball screw from the OEM is certainly an option, but a very pricey one. Since ball screws are machined from top quality material, hardened and ground to precision tolerances, they usually do not need replacing when worn. Therefore, it is cost-effective to seek service from the repair experts at PSI Repair Services. PSI is ISO 9001 certified and operates a full range of state-of-the-art ball screw repair equipment, like CNC thread grinders, CNC 5-axis machining centers, CNC turning centers, ID/OD grinders and a laser lead checker, with resolution to 20 millionths of an inch. In addition, PSI has a **Quality Assurance Department** that will ensure that your repaired ball screw meets required tolerances and performance. We repair ball screws from manufacturers like Mazak, Mori Seiki, Okuma, G&L, MAG for Amada, Cincinnati, K&T and more. Need to keep your critical systems up and running? PSI offers **emergency services and quick turn-around upon request**. For unsalvageable ball screws, PSI offers ball screw **remanufacturing services** that are second to none.

Why should you choose PSI Repair Services?

We offer:

- The highest quality repairs on all types of foreign and domestic ball screws
- 24/48 hour emergency ball screw repair services
- Free inspection and analysis
- Comprehensive failure analysis reporting
- Three service options—Reload (clean and polish the screw), Recondition (regrind the screw and/or ball nut) and Replacement (replace with new screw and/or nut).



Ball Screw Failure Warning Signs

If your ball screw shows signs of pitting or corrosion from contaminants, it is deteriorating. If it shows signs of heat discoloration and operates roughly (wobbles, chatters, growls, etc.), it is likely inadequately lubricated, misaligned and/or has worn/damaged bearings. If the ball screw suffers from excessive vibration, it likely has a bent screw shaft or misaligned bearing housings. If it is making a "clicking" sound, it is generally a sign of excessive build-up, or a broken/dented return tube. If the ball screw shows a loss of positioning accuracy, it is likely due to wear, contamination or endplay in the support bearings. If it displays excessive power draw, it likely has an excessive preload, ball recirculation problems or inadequate lubrication. In any of those situations, it's time to call the repair experts at PSI Repair Services for your free estimate.

Tip: Even patterned brinelling marks in one location indicate a severe overload (trauma), such as a shock load or crash. It is quite likely that the return system may have suffered damage as well.

Start saving time and money today! Call us at 800-325-4774, or visit psi-repair.com.



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